

REPLACEMENT SHEET

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FIG. 1  
(PRIOR ART)

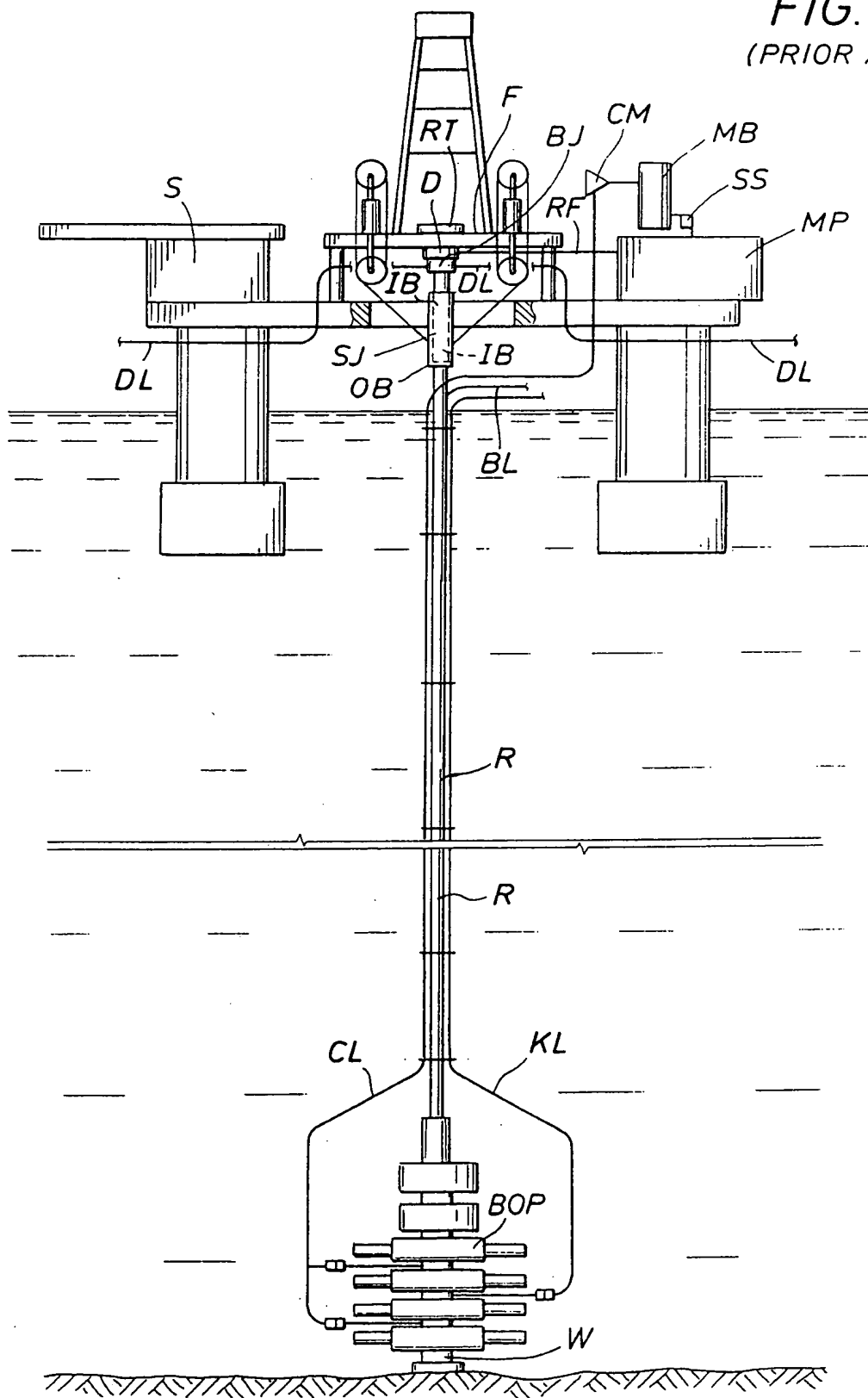
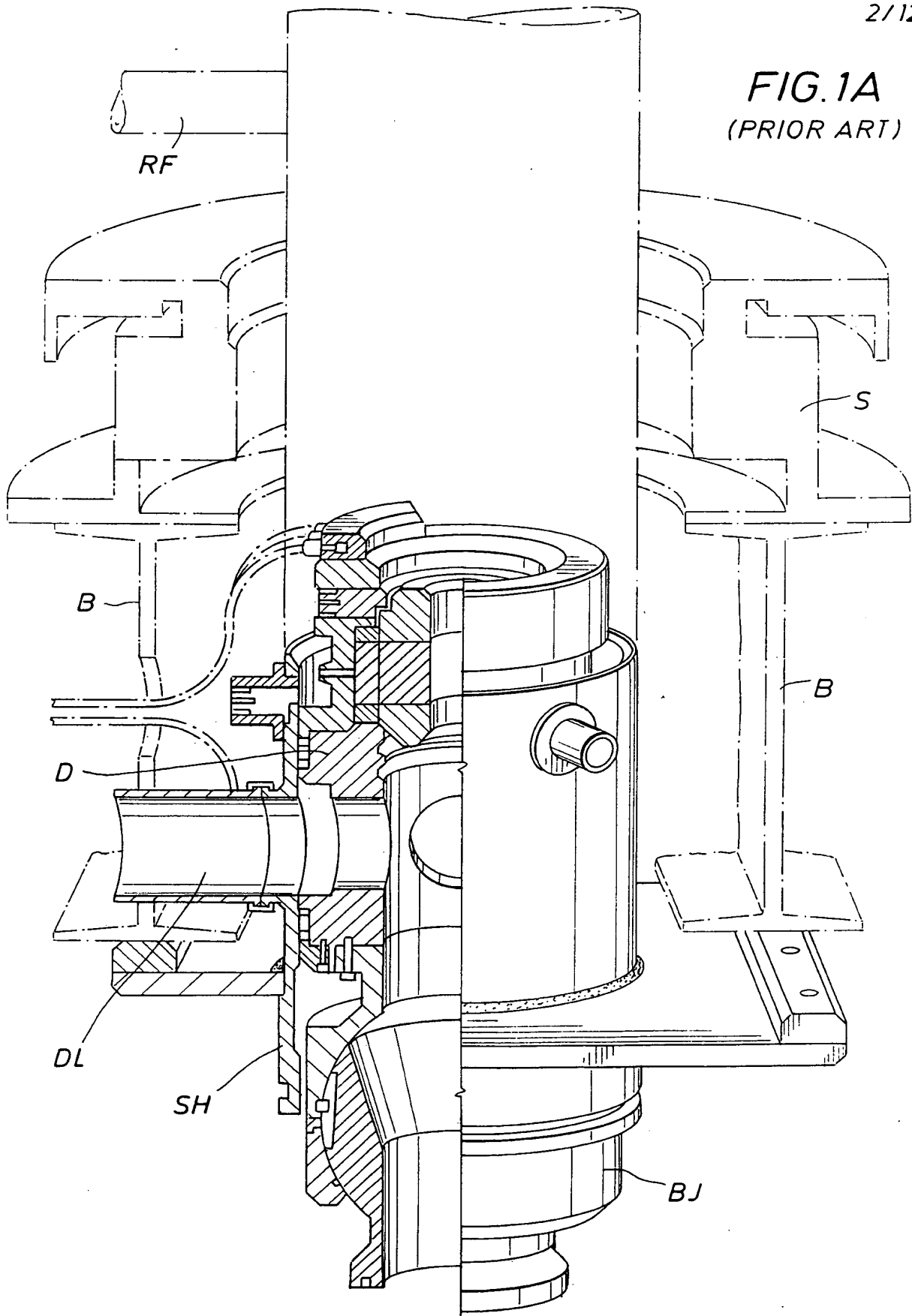


FIG. 1A  
(PRIOR ART)



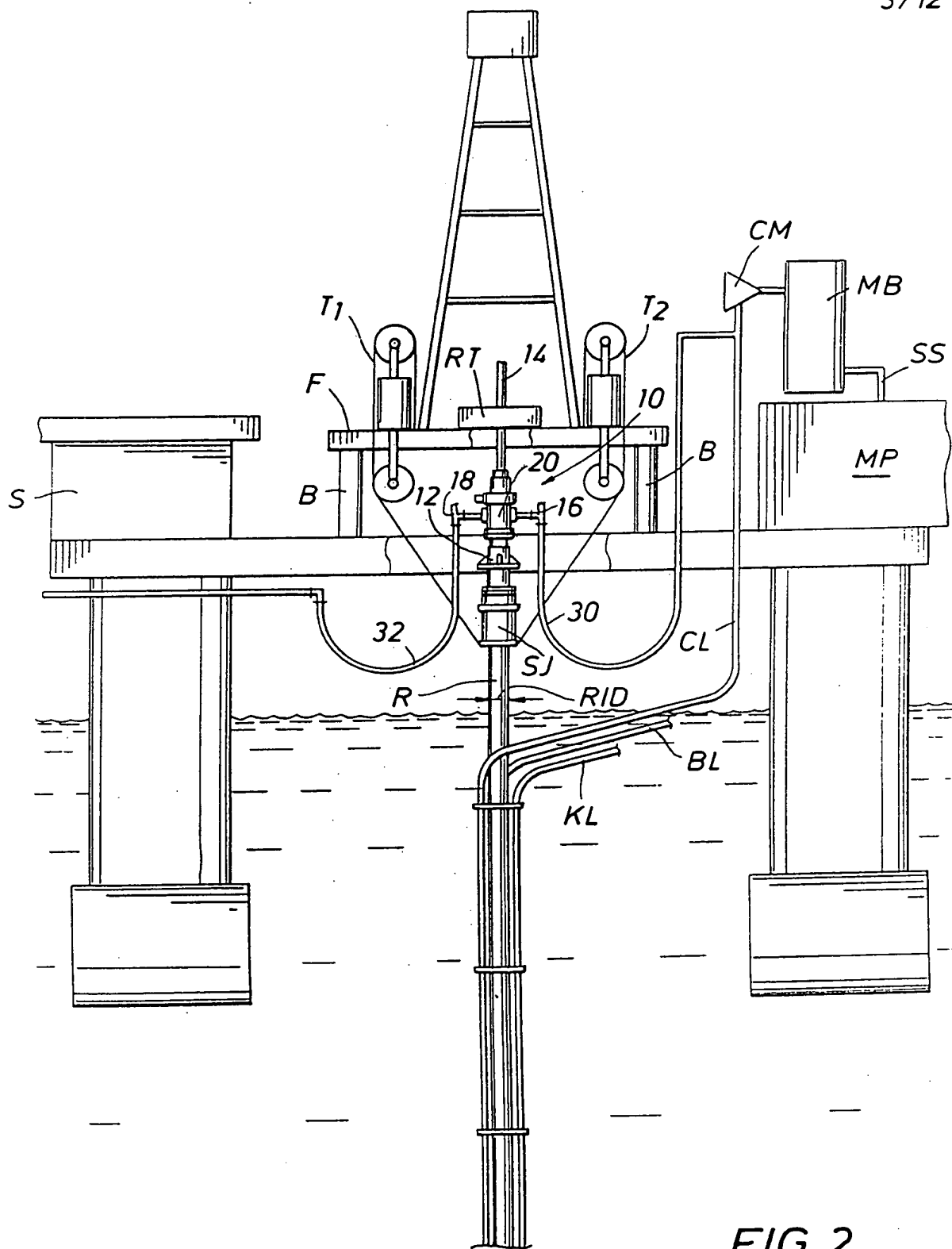


FIG. 2

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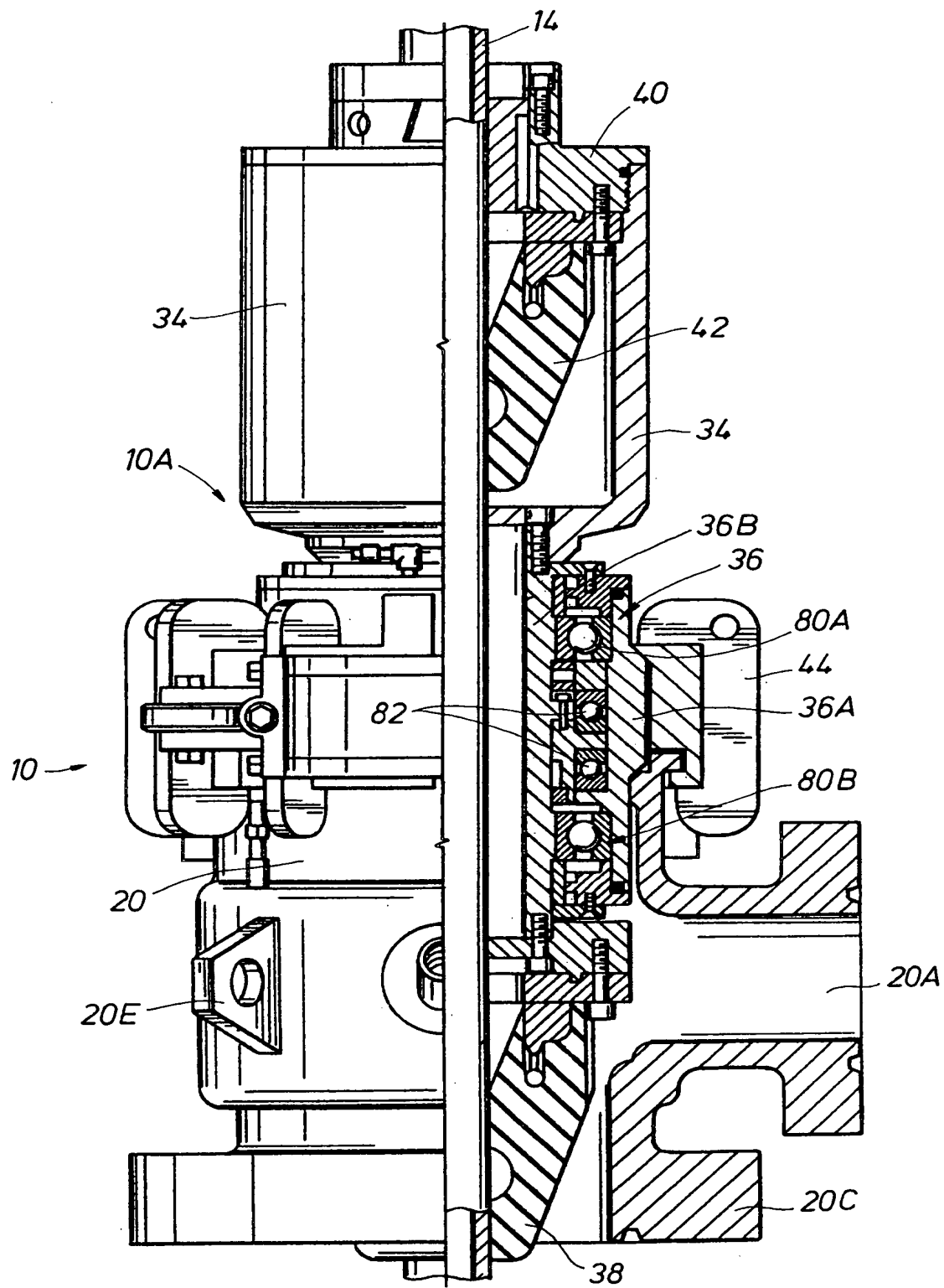
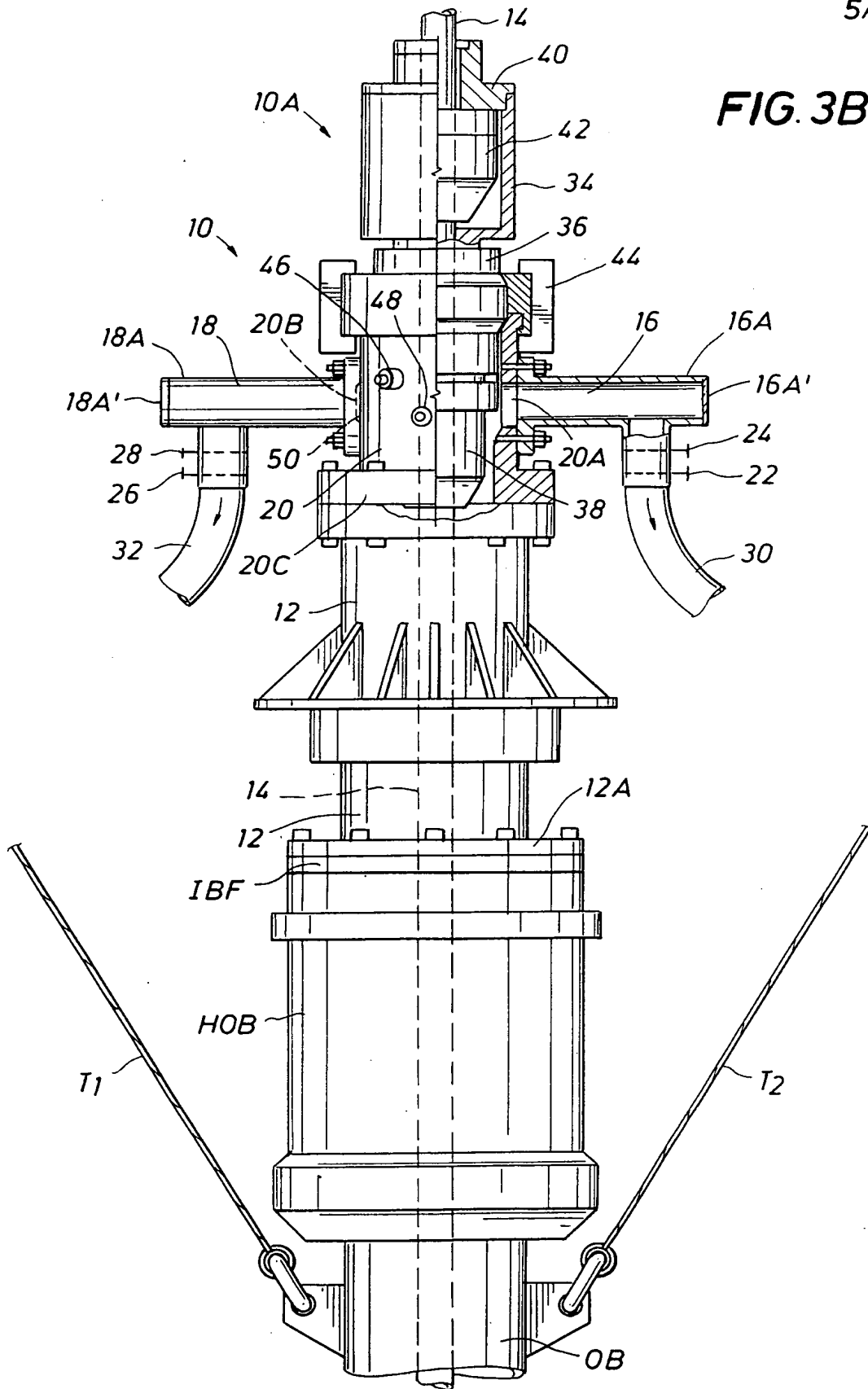


FIG. 3A

FIG. 3B



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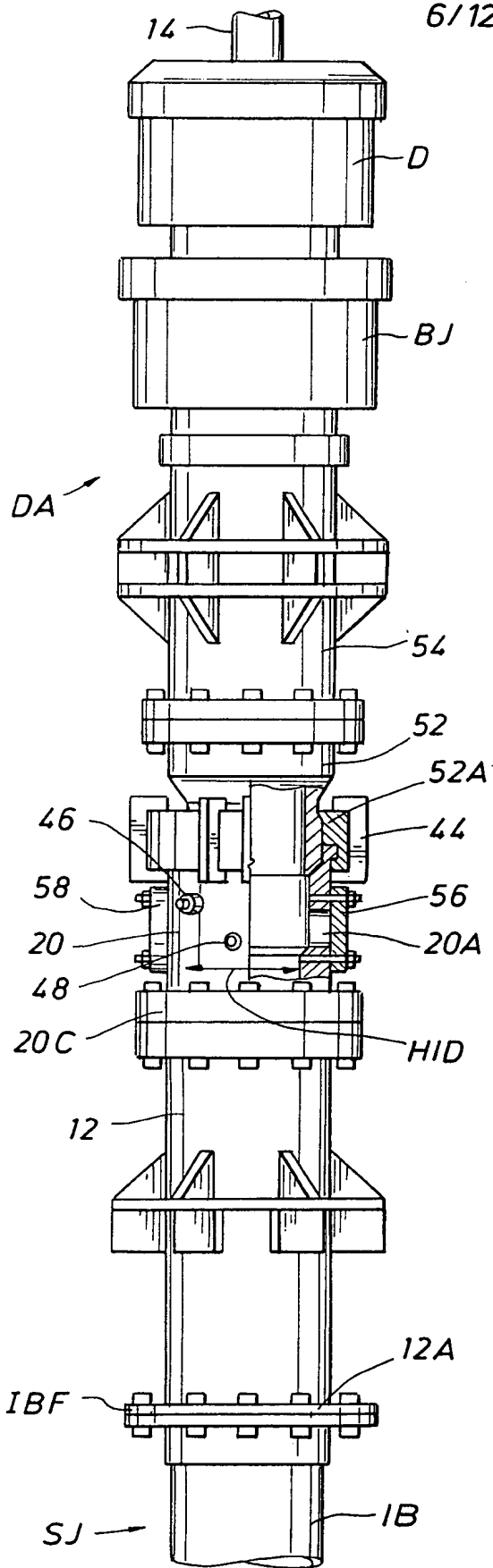


FIG. 4

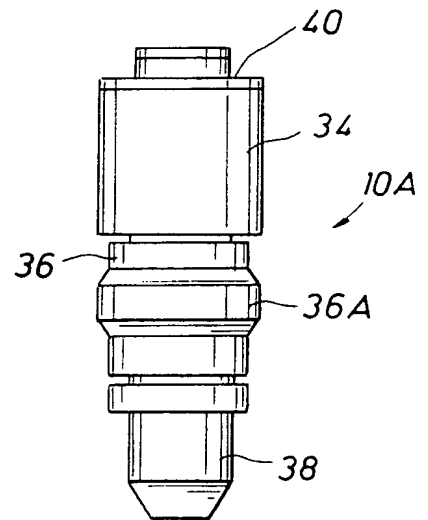
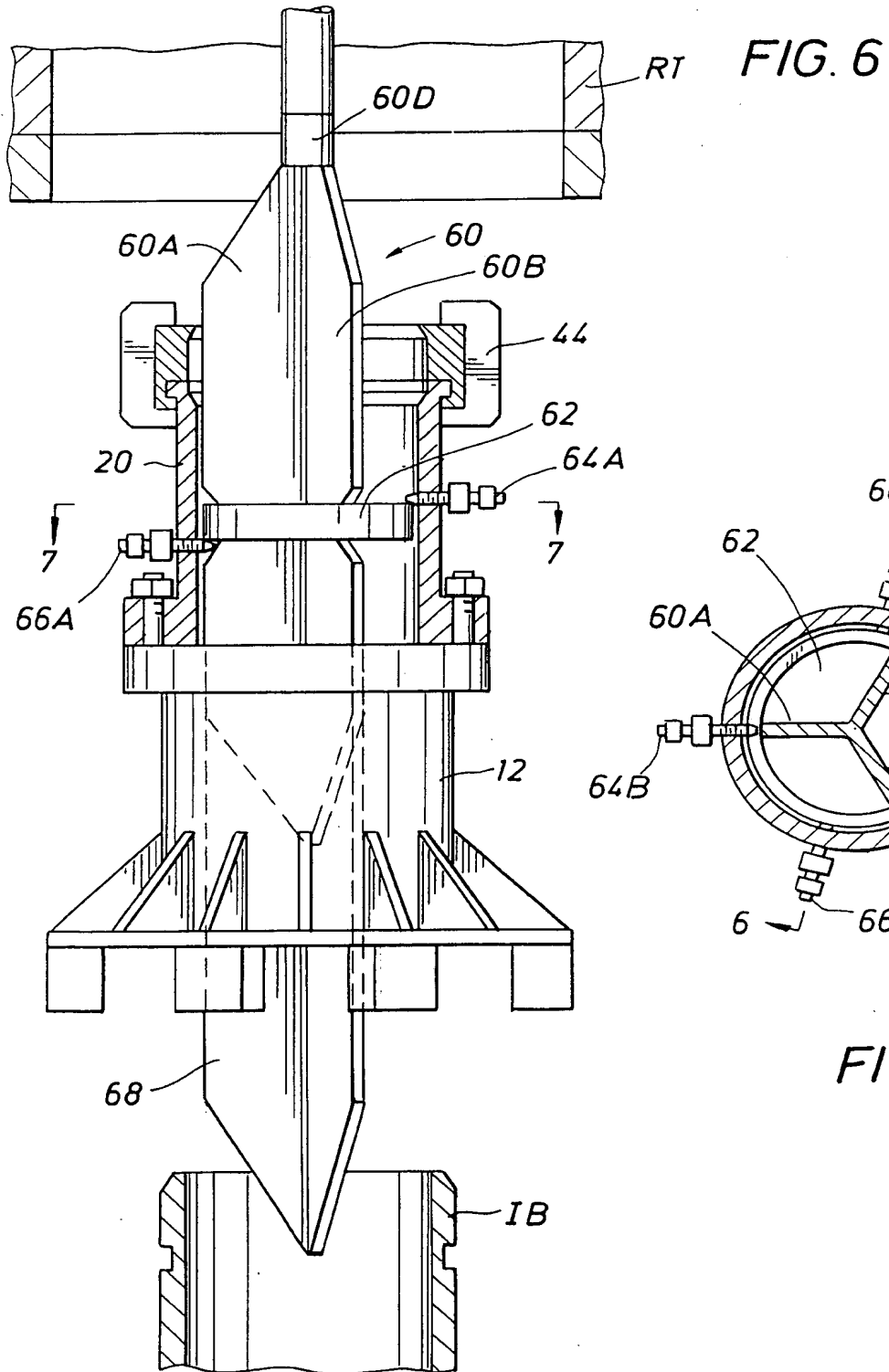


FIG. 5

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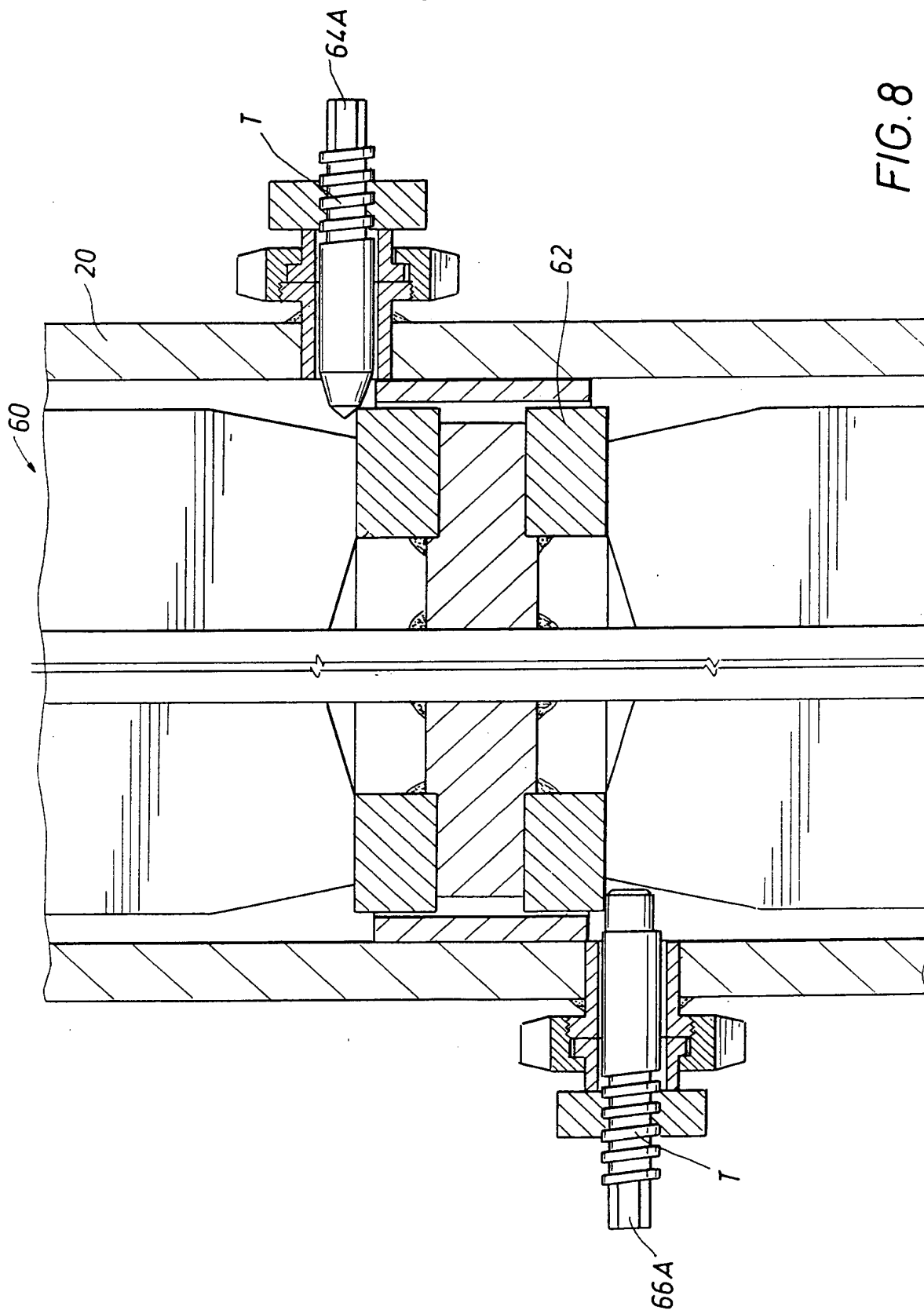
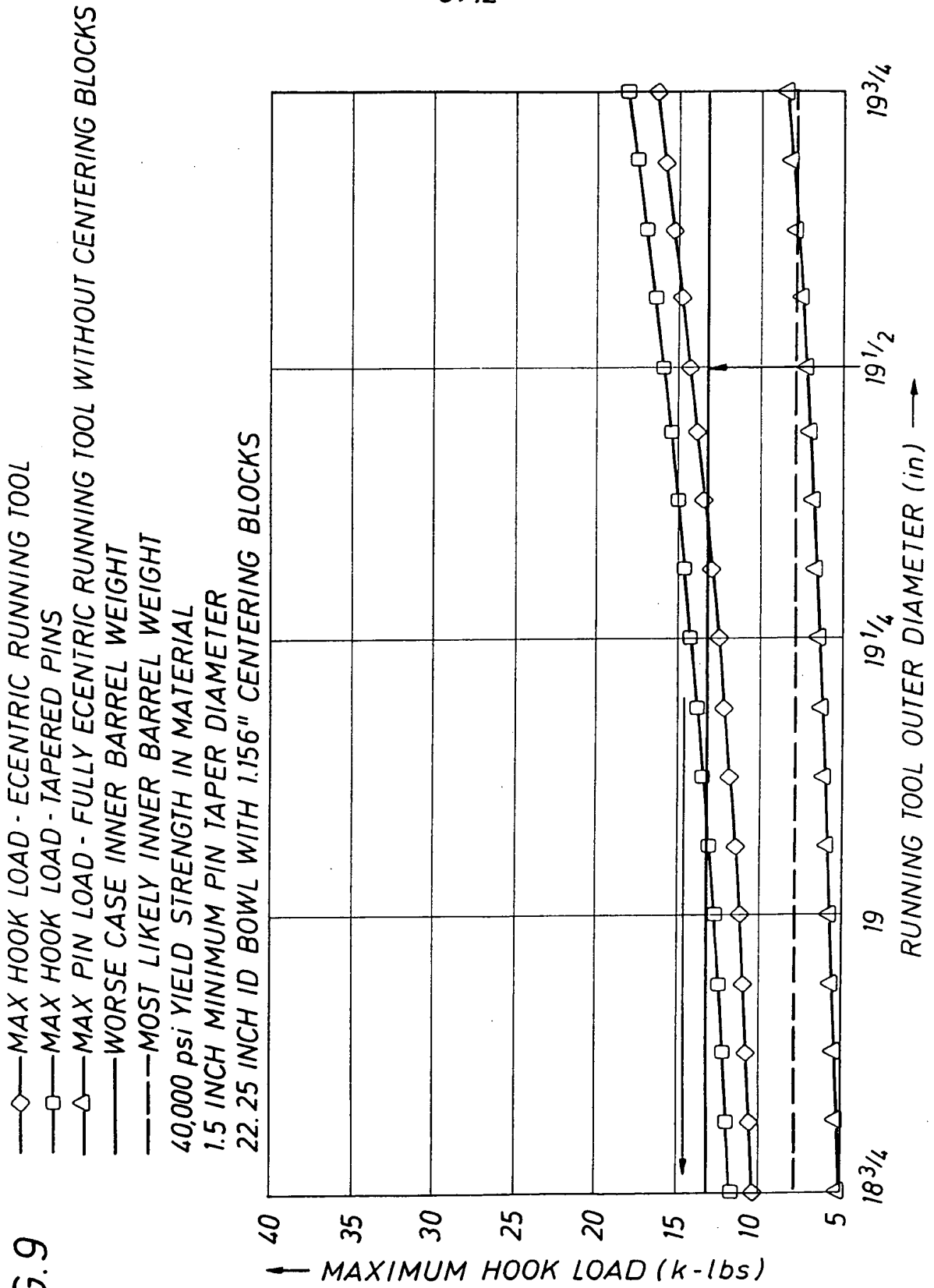


FIG. 8



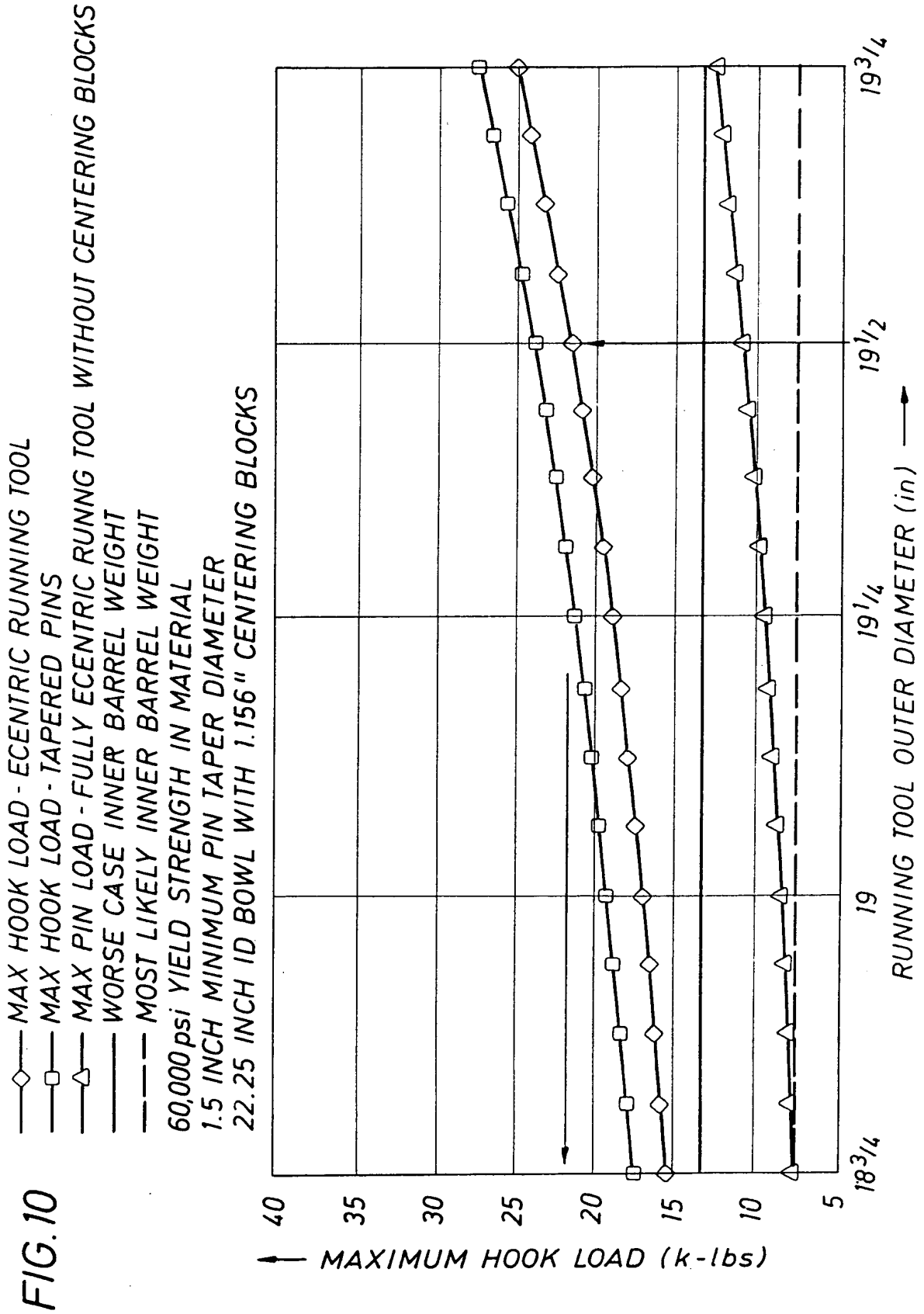
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FIG. 9



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FIG.11

16 ppg MUD, 30cp vis  
10 lb/100 ft<sup>2</sup> YIELD

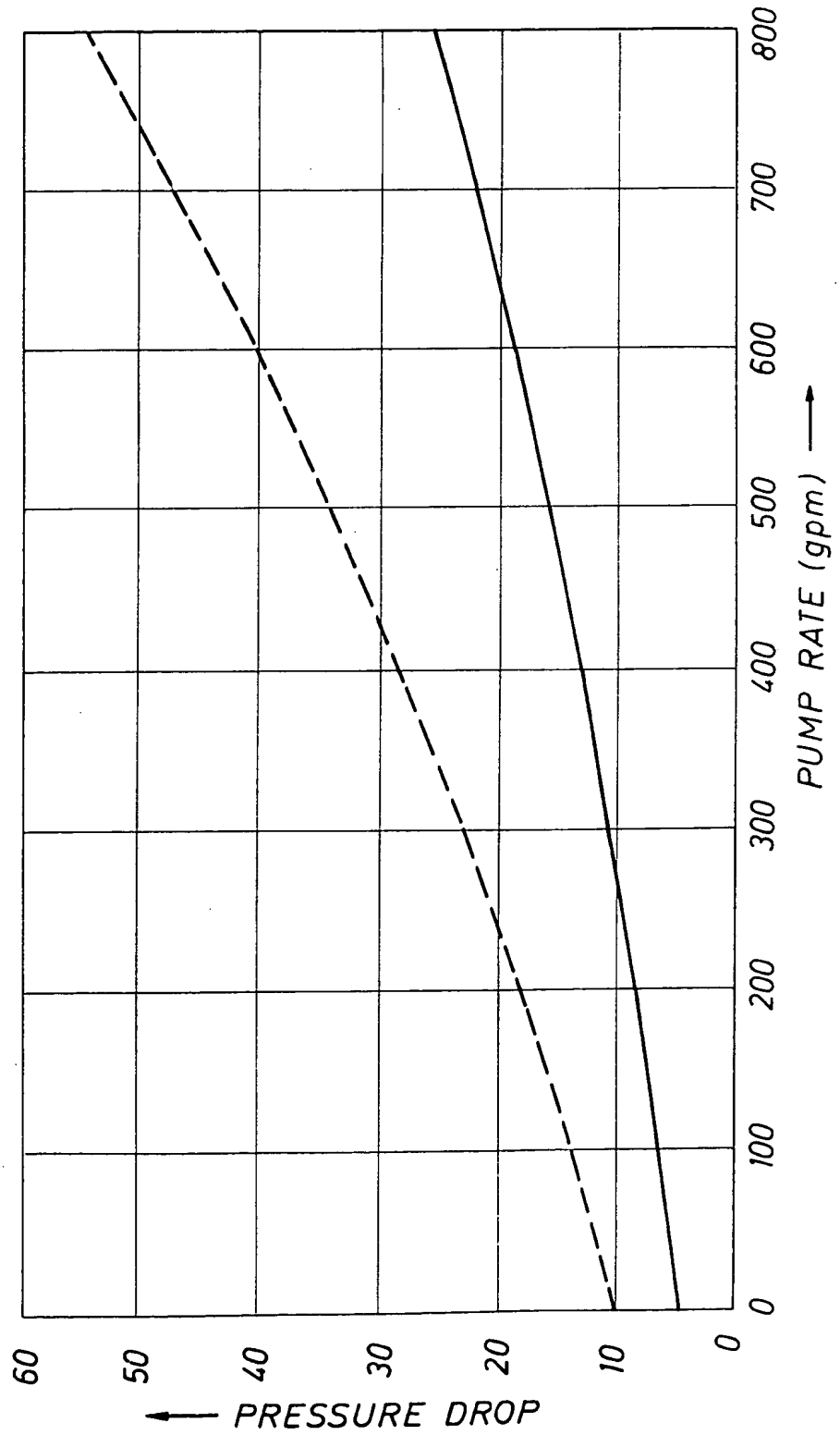
500 gpm BOOSTER PUMP RATE

291 fpm MAX AV IN 9.6 INCH HOLE

85 fpm MAX AV IN 20 INCH RISER

(800 gpm PUMP RATE + 500 gpm BOOSTER PUMP RATE THROUGH HOSE)

—— 30ft LONG HOSE    ---- 64ft LONG HOSE



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FIG. 12

16 ppg MUD, 30 cp vis  
 10 lb / 100 ft<sup>2</sup> YIELD  
 500 gpm BOOSTER PUMP RATE  
 125 fpm MAX AV IN 18 INCH HOLE  
 131 fpm MAX AV IN 20 INCH RISER  
 (1500 gpm PUMP RATE + 500 gpm BOOSTER PUMP RATE THROUGH HOSE)  
 — 30 ft LONG HOSE      - - - - 64 ft LONG HOSE

